	Project Definition	Project Initiation and Alignment	Project Planning and Endorsement (10%)	Geometric Review (30%)	General Plans Review (60%)	Preliminary Contract Review (90%)	Final Contract Review (100%)	Contract Ad and Award	Project Close Out and Archiving
Milestone Purpose	Documents the project purpose, type, strategy, phase durations, budget, and recommended ad date.	Provides basis to charter project team and begin developing the PMP.	Documents the key project criteria, assumptions, and deliverable format.	Documents design criteria and major design decisions.	Design of major project elements completed, review for constructability, conformance with standards	On small projects, this may be combined with the final PS&E Review. On major projects, this is an added constructability review. This is intended to be a near-final PS&E review. Items missing from design should be minor and should be documented to reviewers.	PS&E documents are reviewed by the Region (typically 10 weeks). At end of this review, Contract Plans are Ad Ready.	Submittal of all final deliverables for owner acceptance.	Archive and forward all required project records and files.
Decisions Frozen and Milestones Completed (Overview)		 ✓ Expected level of effort ✓ Authorized budget ✓ Deliverable list 	 ✓ Milestone dates set ✓ Study framework set ✓ Study criteria set ✓ Assumptions defined ✓ Design criteria set 	 ✓ Design concept fixed ✓ Design features defined ✓ NEPA/SEPA approval obtained ✓ Type size and location of all structures fixed ✓ Footprint set ✓ Approval to begin ROW acquisition process ✓ Approval of geometric design ✓ Design Concurrence/Approval 	 ✓ All key project elements and features that drive the project outcome and costs are defined. ✓ Type, size and location of key elements and features fixed. ✓ Geometric Review comments resolved and documented. 	 √ The deliverables are substantially complete √ Review and acceptance of design detail of key elements and features √ Permits Obtained. All environmental permits are approved, verified, and accepted for inclusion into the plans √ General Plans Review comments resolved & documented. 	 √ The deliverables are complete. √ All review comments adjudicated. √ Plans and specifications stamped and sealed at end. √ ROW Certification √ Final Project Approval 	 ✓ Owner accepts design ✓ Approval to advertise ✓ ROW is clear 	 ✓ PS&E documents boxed w/original plans & sent to Archive. ✓ Electronic CAD and CAE files and supporting project documentation transmitted to the WSDOT Project Manager.
Pre-Construction									
Design/PS&E Elements									
Project Management	 Project Definition completed Environmental Review Summary completed Design Decisions Summary completed 	 Project description completed Team assignments made Team identification completed Roles & responsibilities established Measures of success identified Major Milestones established Boundaries of project identified Operating guidelines established Lessons Learned Database reviewed 	Project Management Plan completed, including: Baseline schedule Budget Risk assessment Communication plan Change management plan QA/QC plan					Construction Project Management Plan completed	Lessons Learned captured and reported Evaluation of team/ consultant performance completed

	Project Definition	Project Initiation and Alignment	Project Planning and Endorsement (10%)	Geometric Review (30%)	General Plans Review (60%)	Preliminary Contract Review (90%)	Final Contract Review (100%)	Contract Ad and Award	Project Close Out and Archiving
Environmental Documentation	Environmental Review Summary completed (Determine type of environmental documentation needed)	Verify Environmental Documentation and permits needed Agreement on Area of Potential Affect for Section 106 and Action Area for ESA work	Environmental Documentation and permits coordinated with agencies	 Agency and public coordination conducted Complete determination if utility relocations will be included in WSDOT documents and permits Permits needed verified and begin submitting applications Discipline studies, reports, and predecessor information completed NEPA/SEPA approval 	 All environmental permit application submitted Permits conditions coordinated with the design team and incorporated into the plans 	 All environmental permits approved, verified, and accepted for inclusion into the plans All environmental special provisions approved and included in the PS&E plan set 	Environmental Commitment and Compliance Notebook completed	Environmental Preconstruction Meeting (if applicable)	
Intersection, Channelization or Interchange Plans	Channelization and intersection issues and deficiencies identified		Intersection improvement recommendations endorsed	 Deviations and design exceptions submitted and approved Channelization and Intersection Plans approved Signal Permits completed (if required) Confirm phasing and pocket lengths with traffic operations 		Approved Channelization Plan verified for consistency with plans and specifications			
Estimates	Preliminary cost estimate developed for Project Definition	Budget assumptions communicated	Determine if project needs Value Engineering or Cost Risk Assessment/Cost Estimating Validation Process	Cost estimate updated Right of Way Project Funding Estimate completed	 Cost estimate updated Pay groups and pay items determined 	 Cost estimate completed including below the line items Summary of quantities completed Item prices determined Lump sum cost detail completed 	Construction estimate finalized		
Geometrics	 Project limits identified Affected alignments identified New versus existing alignment determined Lane/shoulder widths determined Design matrix identified Design speed defined Preliminary design criteria established 		 Design criteria/ parameters approved Preliminary footprint designed 	Typical roadway section(s) completed - identifying station to station roadway geometrics, surfacing type & depth, slope information, guardrail, vertical cut locations, and construction notes Deviations & design exceptions approved Mainline and major horizontal, & vertical alignments, & superelevations designed Design Approval obtained	 All horizontal & vertical alignments & Superelevations completed DDP updated as required 	All geometric plans completed (alignment, profiles, roadway sections, interchange contours, site preparation, road approach plans, etc) Design compared to endorsed design criterial parameters			

	Project Definition	Project Initiation and Alignment	Project Planning and Endorsement (10%)	Geometric Review (30%)	General Plans Review (60%)	Preliminary Contract Review (90%)	Final Contract Review (100%)	Contract Ad and Award	Project Close Out and Archiving
Hydraulics & Water Quality (also see TESC)	 Design criteria identified Drainage Deficiencies identified in accordance with Maintenance and Regional Hydraulics Storm water Management requirements identified Water quality requirements identified 	Deficiencies confirmed with Maintenance	Hydraulic and Water Quality issues identified Deficiencies confirmed with Project/Design Team Storm water Management Requirements documented Sensitive Area Documentation completed(Water Resource Inventory). Stormwater Management Strategy endorsed	TS&L of drainage facilities determined Preliminary Hydraulics Report completed, including: Documentation of deficiencies Existing basins and flows for anticipated TDAs Identification of Minimum Requirements from Highway Runoff Manual (HRM). Storm Water Report submitted to region for review and approval Hydraulics Report Submitted Preliminary Stormwater Management options to identify Right of Way needs completed	Hydraulics Report approved	Approved Hydraulic Report verified for consistency with plans and specifications Storm water details completed			
Illumination Also refer to "Expectation for Illumination Reviews" matrix.			Decision on design standards, equipment, etc. completed	Refer to Deliverables in the Illumination Matrix "Permitting Submittal Review" Warrant Analysis completed	Refer to Deliverables in the <u>Illumination Matrix</u> "Intermediate PS&E Submittal Review"	Refer to Deliverables in the <u>Illumination Matrix</u> <u>"PS&E Pre-Submittal</u> <u>Review"</u>	Refer to Deliverables in the <u>Illumination Matrix</u> "Final PS&E Submittal Review"		
ITS Also refer to "Expectation for ITS Reviews" matrix.			 ITS design methodology for review completed Type, size, and location completed Decision made on design standards, equipment 	Refer to Deliverables in the ITS Matrix "Permitting Submittal Review" Soils analysis request for special design CCTV or ramp-meter foundations submitted Preliminary Signal Plan submitted to HQ Traffic for approval	Refer to Deliverables in the <u>ITS Matrix</u> "Intermediate PS&E Submittal Review"	Refer to Deliverables in the ITS Matrix "PS&E Pre-Submittal Review"	Refer to Deliverables in the <u>ITS Matrix "Final</u> <u>PS&E Submittal Review"</u>		
Right-of-way	Requirements for Right of Way documented	Preliminary Right of Way needs identified	Title reports ordered	 Right of Way plan completed and approved ROW Appraisals completed Relocation Plan completed Right of Way Project Funding Estimate prepared Right of Entry for project investigations obtained 	 ROW appraisal reviews completed and offers made ROW acquisition and Relocation initiated 	Right of Way negotiations completed	Right of Way relocations completed	Right of Way certified	

	Project Definition	Project Initiation and Alignment	Project Planning and Endorsement (10%)	Geometric Review (30%)	General Plans Review (60%)	Preliminary Contract Review (90%)	Final Contract Review (100%)	Contract Ad and Award	Project Close Out and Archiving
Roadside	 Roadside Restoration Worksheet completed – define impacts and estimate restoration to meet Roadside Classification Plan requirements Complete determination if Roadside Restoration will be included in construction contract or by a separate contract. 	Scope of work for mitigation and roadside restoration efforts defined Need for coordination of visual elements in project identified Complete determination of whether Visual Quality Assessment is needed for Environmental Document	Visual Quality Analysis developed Complete verification of roadside impacts, scope and estimate for restoration of roadside Wetland areas delineated for survey	 Site Analysis completed Functional Analysis completed Conceptual Design completed Conceptual Irrigation/planting Plan completed Preliminary Plant Palette completed. Mitigation Site Selection completed. Evaluation of TS&L of Structures and Walls and determine treatment for visual aspects completed 	 Preliminary irrigation layout completed Necessary agreements identified (water, electric, maintenance) Coordination completed with Architect to detail treatment of visual elements completed Final Conceptual Plans, Grading and Planting plans for Mitigation report completed Coordination completed with Environmental and Biology for Mitigation Report Development 	Landscape Architect stamps plans for roadside restoration, environmental mitigation, irrigation and contour plans Recommend preferred option to accomplish required plant establishment beyond 1st year	Commitment file transmitted to construction PE		
Roadside Safety		IHSDM - (Interactive Highway Safety Design Model) utilized if applicable	Accident & crash history reviewed Conflicting traffic movements (diverging, merging, weaving, crossing) identified Pedestrian & bicycle needs identified Non-standard barrier identified Access review completed	Fall restraint requirements identified Complete coordination of proposed removal of significant vegetation with Landscape Architect Clear Zone Inventory & Evaluation completed Utility conflicts identified Geometric mitigations i.e. shoulder widening incorporated into design Geometric Check completed – Intersections, horizontal, vertical sight distances	Hazard Mitigation completed— i.e. barrier length of need, fixed objects, attenuator design, drainage structures ADA requirements completed	Quantity Tabulation completed		Utility relocation coordination completed	
Signals Also refer to <u>"Expectation for Signal Reviews"</u> matrix.			Signal design methodology completed	Refer to Deliverables in the Signals Matrix "Permitting Submittal Review" Signal permit submitted to WSDOT.	Refer to Deliverables in the <u>Signals Matrix</u> "Intermediate PS&E Submittal Review"	Refer to Deliverables in the <u>Signals Matrix "PS&E</u> <u>Pre-Submittal Review"</u>	Refer to Deliverables in the <u>Signals Matrix "Final</u> <u>PS&E Submittal Review"</u>		

	Project Definition	Project Initiation and Alignment	Project Planning and Endorsement (10%)	Geometric Review (30%)	General Plans Review (60%)	Preliminary Contract Review (90%)	Final Contract Review (100%)	Contract Ad and Award	Project Close Out and Archiving
Signing			(1070)	 Sign layout completed, including overhead signs Existing signs to reuse, and relocate determined Existing sign inventory completed (include associated electrical items for sign lighting or flashing signs) Potential conflicts between light standards and signal poles with signs identified 	 Visual standards for corridor coordinated with Landscape Architect Signing plans, notes, sign specifications completed Conflicts with illumination and/or signal features, drainage or utilities identified Coordination with luminaries on structures or walls identified and mounting/foundation details completed Requests for Sign structures submitted to HQ Bridge and Structures Service load and line loss calculations completed Utility Agreement and Utility Relocation Requests submitted 	Signing detail sheets completed			
Soils & Paving	Scoping Level Pavement Design Report completed, including: WSPMS/Historical Data/Maintenance Input Projected Traffic Type/Usage Existing Conditions/Primary Deterioration	 Project soils investigations defined Scoping Level Pavement Design reviewed Onsite field investigation scheduled (schedule and initiate no sooner than 1 year prior to construction) Topographic survey requested Region materials resurfacing report requested 	 Soils investigation initiated Field and Core Investigation completed Draft Pavement Design Report completed Borings coordinated with signals, high mast & sign structures, and ITS CCTV poles 	Soils and Geotechnical Report completed Pavement Resurfacing Report completed Draft Pavement Design Report completed and approved by Region, (forwarded to State Materials Lab for concurrence) Foundation Design checked as requested by Design PEO for signals/illumination Complete assessment and initiation of on-site field testing as required. (Forward to State Material's Lab if required)	 Draft Pavement Design Report completed Final Pavement Design Document stamped by Region and forwarded to State Material's Lab for signed concurrence Foundation Design for signals/illumination completed Rec Plan completed 	Final Pavement Design Document with Region stamp and State Material's Lab signed concurrence to Region for Plan Review All permits and environmental requirements completed Materials Source Report completed and submitted to State Material's Lab	Boring logs submitted	Geotechnical Report compiled for contractor review Geotechnical Report & cross-sections posted on website Pavement Repair quantities and locations reviewed with Construction PEO for verification of field accuracy	
Specifications					 Specifications run list completed Specialty groups specifications and special provisions completed Pay groups and pay items determined 	 Prepare summary of quantities Determine item prices All special provisions submitted for review and approval 	Approved Specifications included in PS&E		

	Project Definition	Project Initiation and Alignment	Project Planning and Endorsement (10%)	Geometric Review (30%)	General Plans Review (60%)	Preliminary Contract Review (90%)	Final Contract Review (100%)	Contract Ad and Award	Project Close Out and Archiving
Structures (Bridges, Retaining Walls, Noise Walls, high mast lighting, sign structures) Also refer to "Expectation for Structural Reviews" matrix.		 Scope for TS&L Determined Structural Input on Environmental Documentation and Permits Provided 	Structural Participation in Agency Coordination Provided	 Refer to Deliverables in the Structural Matrix "Intermediate PS&E Submittal Review" Complete TS&L Bridge and Wall Site Date Completed for Preferred Structural Alternative Structural Permitting Submittal Review Completed (includes constructability review for viable construction method, sequence, and schedule) 	Refer to Deliverables in the <u>Structural Matrix</u> "PS&E Presubmittal Review"	Refer to Deliverables in the <u>Structural Matrix</u> <u>"Final PS&E Review"</u> **Final PS&E Review** **Time The Position of the	Refer to Deliverables in the <u>Structural Matrix "Ad Copy"</u>		
Survey & Mapping		Project survey requirements finalized, including areas that may be outside roadway corridor improvements.	 Project survey control completed Cadastral survey performed Topographic Survey performed 	 Design level mapping completed Record of Survey completed and filed Right of Way plan completed and approved Relocation plan completed 	 Mapping of new roadway features completed Field review of proposed features completed 	DNR Permits to Destroy Monuments obtained	Preliminary construction staking data completed		
Temporary Erosion and Sediment Control (TESC)				Preliminary TESC completed	TESC plan submitted to region for review and approval	 Final TESC approved, including site visit Construction Water Quality Monitoring Plan submitted 	 Approved TESC letter transmitted to PS&E Erosion Control Plans and Notes completed 	Staking of TESC measures and construction reviewed	
Traffic Analysis			Traffic Impact Analysis (TIA) scope established	 Accident Analysis completed Traffic Operational Analysis completed 	Assumptions and conclusions in Traffic Analysis verified for consistency with design				

	Project Definition	Project Initiation and Alignment	Project Planning and Endorsement (10%)	Geometric Review (30%)	General Plans Review (60%)	Preliminary Contract Review (90%)	Final Contract Review (100%)	Contract Ad and Award	Project Close Out and Archiving
Utilities	Utilities within the project limits notified Washington Utilities Transportation Commission (WUTC) permit application for railroad crossings submitted	 Potential utility relocations identified Responsibility for costs established 	 Utility As-Builts requested Railroad (RR) issues identified Relocation cost responsibility defined Franchise and permit documentation collected Utility relocation strategy for project established 	 Utility Plan with as-built information completed and transmitted to Utilities Preliminary Utility conflicts identified Utility Object Relocation Record (UORR) sent to utilities Project Overview Meeting held with Utility Owners Subsurface Utility Engineering (SUE) Quality Level C & D completed Determination of need for SUE Quality Level A & B Relocation plans and schedule requested from utilities Franchise and permit process initiated Cost recovery accounts initiated Utility property rights verified Railroad standard Construction Maintenance Agreement (CMA) obtained 	 Utility conflicts confirmed and relocation letters sent to utilities Utility relocation meeting held Utility Relocation Plans and schedules obtained and approved Utility and railroad agreements completed Utility permits and franchises obtained Finalize utility agreements (costs responsibility estimate complete) 	Utility Relocation Plan information and specifications Incorporated in PS&E Letters of Understanding issued to utilities requiring relocation Utility, service, and railroad agreements completed Utility relocation and schedule monitored and coordination completed Construction Maintenance Agreement completed		Utility relocation work completed	
Public Involvement Plan		Define Stakeholders List	Public Involvement Plan completed						
Work Zone Traffic Control		Basic traffic control strategies and alternatives completed	Traffic control strategy completed	Preliminary traffic control layouts completed	Traffic control plans showing Construction Sequence and staging completed	Final traffic control plans completedFinal detour plans completed	Traffic Control Plans Completed and associated Specials approved		